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INSTITUTION

Minnesota Univ., Minneapolis. Vocational Follow-Up

System.

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#### ABSTRACT

The vocational followup system in the Minnesota area postsecondary vocational-technical institutes gathers three types of data about the students: (1) biographical, (2) termination and change of program, and (3) followup data on graduates. As part of this three-pronged effort, the termination and change data in the report provide information concerning the number of enrollees who graduated, withdrew, completed training objectives, received trade certificates, or changed programs between July 1, 1972 and June 30, 1973. Appendixes include the system curriculum guide and the categorization system of reasons for withdrawal. (MF)

 REPORT OF STUDENT TERMINATIONS FROM FULL-TIME DAY PROGRAMS
OF THE MINNESOTA AREA VOCATIONAL-TECHNICAL INSTITUTES
BETWEEN JULY 1, 1972, AND JUNE 30, 1973

VOCATIONAL FOLLOW-UP SYSTEM

Room 302, 1507 University Avenue Southeast
University of Minnesota
Minneapolis, Minnesota 55414
David J. Pucel, Director
December, 1973

JUL 1 6 1975

#### **FOREWORD**

The Vocational Follow-Up System has developed and is operating a system to follow up graduates of the post-secondary day programs of the Area Vocational-Technical Institutes of Minnesota. The System is financed by and operated for the Minnesota State Department of Education, Vocational-Technical Division. The System provides the State of Minnesota with a central follow-up system.

The Vocational Follow-Up System gathers three types of data concerning the students: (1) biographical data, (2) termination and change of program data, and (3) follow-up data on graduates, one year after graduation. The enrollee biographical data provide information concerning the population of people being served by the institutes, as well as the basic information necessary to follow-up students in the future. The termination and change of program data provide information concerning the number of enrollees who graduate, withdraw, complete training objectives or receive trade certificates, or change programs. The follow-up data provide information on what happens to individuals in the world of work after they leave the training programs. Experience with the follow-up system in Minnesota has been highly successful. In the past, returns have been received from about 82 percent of the students followed up and from about 93 percent of their employers.

This report was prepared by the staff of the Vocational Follow-Up System with the coordination of Jeffrey Luftig and Billie T. Rader. Comments concerning the reports and their effectiveness should be addressed to:

Dr. David J. Pucel Professor and Director Vocational Follow-Up System 125 Peik Hall University of Minnesota Minneapolis, Minnesota 55455



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### DESCRIPTION AND INTERPRETATION OF TABLES

This report features termination data gathered from the Area Vocational Technical Institutes of Minnesota on students who had a change of enrollment status between July 1, 1972 and June 30, 1973.

TERMINATIONS ARE DEFINED THROUGHOUT THIS REPORT TO INCLUDE. (1) GRADUATIONS,

(2) WITHDRAWALS (DROPS). AND (3) TRAINING OBJECTIVE COMPLETIONS OR TRADE CERTIFICATES.

Information is provided to the Vocational Follow-Up System by an institute when a student graduates, completes his training objective or receives a trade certificate, withdraws from an institute, or changes program. Students are classified as "graduates" if they satisfactorily complete all program requirements and formally graduate. Students are classified as "completed training objective or received trade certificate" as follows. If they have partially met the requirements for graduation but have left the training program before graduation to accept employment directly related to their training, they are classified as having "completed training objective." If they have completed the requirements for graduation but have not met the level of performance required to graduate, some institutes present the students with trade certificates. Trade certificates are also awarded (by some institutes) to students who only complete the first part of a two-part program where it is not possible to graduate from the first part alone. Students are classified as "withdrawals" (drops) if they dropped out of an institute. Changes of status are classified as "program changes" when students change their training objectives and transfer to other programs within the same institute.

Four tables are included in this report: (1) TERMINATION STATUS OF STUDENTS, (2) REASONS WHY STUDENTS WITHDREW, (3) NUMBER OF TERMINATIONS FROM EACH CURRICULUM AREA INCLUDED IN THIS REPORT, and (4) NUMBER OF TERMINATIONS FROM EACH AREA VOCATIONAL-TECHNICAL INSTITUTE INCLUDED IN THIS REPORT.



### TABLE 1 - TERMINATION STATUS OF STUDENTS

Table 1 presents the numbers and percentages of students who were reported to have (1) graduates, (2) completed training objective or received trade certificate, or (3) withdrawn (dropped) between July 1, 1972, and June 30, 1973. Table 1 also presents the number of program changes made by students during the same period. Please note that it is possible for a given student to have had more than one change of termination status during the reporting period.

For example, a person could change from one program to another, and then graduate from the second program.

#### TABLE 2- REASONS WHY STUDENTS WITHDREW

The numbers and percentages of students who were reported to have withdrawn or dropped from the area vocational-technical institutes for various reasons between July 1, 1972 and June 30, 1973 are presented in Table 2. This table is a further breakdown of the "WITHDRAWALS" (DROPS) category contained in Table 1.

The reasons for withdrawal are categorized as: (1) ENTERED THE ARMED FORCES;

(2) TRANSFERRED TO ANOTHER AREA VOCATIONAL-TECHNICAL INSTITUTE; (3) TRANSFERRED TO A JUNIOR COLLEGE; (4) TRANSFERRED TO A COLLEGE OR UNIVERSITY; (5) TRANSFERRED TO INSTITUTION OTHER THAN THOSE MENTIONED IN 2, 3, or 4; (6) ECONOMIC REASONS;

(7) PERSONAL PROBLEMS; (8) UNSATISFACTORY PROGRAM PERFORMANCE; and (9) REASON UNKNOWN. A list of sample reasons for withdrawal included under each of these categories is presented in Appendix B.

## TABLE 3 - NUMBER OF TERMINATIONS FROM EACH CURRICULUM AREA INCLUDED IN THIS REPORT

Table 3 presents the numbers and percentages of students included in this report who terminated from each major curriculum area of the area vocational-



technical institutes. The curriculum classification system underlying the categories in Table 3 is presented in Appendix A.

TABLE 4 - NUMBER OF TERMINATIONS FROM
EACH AREA VOCATIONAL-TECHNICAL INSTITUTE INCLUDED IN THIS REPORT

Table 4 presents the numbers and percentages of students included in this report who were reported to have terminated from each vocational-technical institute between Suly 1, 1972 and June 30, 1973.



# TABLE 1-TERMINATION STATUS OF STUDENTS - TERMINATIONS INCLUDE GRADUATES, WITHDRAWALS, TRAINING OBJECTIVE COMPLETIONS AND TRADE CERTIFICATES

CATĖGORY	NUMBER	PERCENT
1. GRADUATES	9374 747 4216 520	65.38 5.21 29.41
TOTALS	14857	100.00

### TABLE 2-REASONS WHY STUDENTS WITHDREW

CATEGORY	NUMBER	PERCENT
1. ENTERED THE ARMED FORCES 2. TRANSFERRED TO ANOTHER AVTI 3. TRANSFERRED TO A JUNIOR COLLEGE 4. TRANSFERRED TO A COLLEGE OR UNIV 5. TRANS. TO INST. OTHER THAN 2.3. OR 4 6. ECONOMIC REASONS 7. PERSONAL PROBLEMS 8. UNSATISFACTORY PROGRAM PERFORMANCE 9. REASON UNKNOWN	154 122 37 80 23 1051 777 1398 574	3.65 2.89 0.88 1.90 0.55 24.93 18.43 33.16 13.61
TOTALS	4216	100.00



## TABLE 3-NUMBER OF TERMINATIONS FROM EACH CURRICULUM AREA INCLUDED IN THIS REPORT

1. ACCOUNTING (45)(9 1)	CATEGORY	NUMBER	_
3. AGRI-TECHNOLOGY (37)(902)	1. ACCOUNTING (45) (9 1)		
4. AIRCRAÉT MECHANICS (18)(923)		78	0.53
5. AIR TRAFFIC CONTROL (81)(937)		62	0 • 42
6. ARCHÎTECTÜRAL DRAFTING (09):908) . 255 1.72 7. AUDIO-VISUAL TECHNOLOGY (79)(915) 22 0.15 8. AUTO BODY REPAIR (75)(923)			
7. AUDIO—VISUAL TECHNOLOGY (79) (915)  8. AUTO BODY REPAIR (75) (923)			
8. AUTO BODY REPAIR (TE) (923)			
9. AUTOMOTIVE (06)(923)			
10. AUTOMOŤIVE MACHINIST (86) (923)			
11. BAKERY PROCEDURES (31) (913)			
12 BANK TELLER (88) (901)			• •
13. BARBERING (24)(916)			_
14. BRICKLÄYING (28) (925)			
15. BROADCASTING (63) (904)			
16. BUTCHER AND MEAT CUTTING (62) (913) 93 0.63 17. CABINETMAKING (20) (941)			
17. CABINETMAKING (20) (941)			
18. CARPENTRY (04) (941)			-
19. CHEFS, COOKS AND FOOD MGMT. (15) (913) 20. CHEMICAL TECHNOLOGY (77) (920)			
20. CHEMÍCAL TECHNOLOGY (77) (920)			
21. CHILD DEVELOPMENT ASST. (66) (917)  22. CLERICAL TRAINING (47) (901)			
22. CLERICAL TRAINING (47) (901) 960 6.46 23. COMMERCIAL ART (68) (9 3) 112 0.75 24. CONSERVATION AND FORESTRY (61) (914) 40 0.27 25. CONST./MECH. TRADES (92) (934) 34 0.23 26. CONSTRUCTION WORKER (78) (906) 32 0.22 27. COSMETOLOGY (17) (916) 325 2.19 28. CUSTODIAL WORKER (71) (907) 13 0.09 29. DATA PROCESSING (49) (901) 269 1.81 30. DENTAL ASSISTANT (33) (917) 158 1.06 31. DIESEL MECHANICS (10) (923) 220 1.48 32. DRY CLEANING AND LAUNDRY (89) (905) 2 0.01 33. EDUCATIONAL AIDE (76) (909) 39 0.26 34. ELECTRO-MECHANICAL TECH. (40) (911) 122 0.82 35. ELECTRO-MEDICAL TECHNOLOGY (82) (910) 6 0.04 36. ELECTRONICS (01) (910) 509 3.43 37. ENVIRONMENTAL TECH. (99) (939) 509 38. EQUIPMENT PARTS AND SALES (42) (933) 80 0.54 39. FARM EQUIPMENT MECHANICS (13) (902) 82 0.55 40. FARM MANAGEMENT (51) (902) 116 0.78 41. FARRIER (70) (912) 18 0.12 42. FASHION MERCHANDISING (57) (905) 18 0.12 43. FLUID POWER TECH. AND HYD. (22) (923) 94 0.63 44. HEAVY EQUIPMENT (56) (923) 20 0.13 45. HIGHWAY TECHNOLOGY (35) (908) 20 0.13 46. INDUSTRIAL TECHNOLOGY (83) (936) 20 0.13 47. INTERIOR DESIGN AND SALES (44) (933) 43 0.29 48. INTL. DOCUMENTS SPEC. (59) (933) 14 0.09 49. JEWELRY (55) (919)		=	
23. COMMERCIAL ART (68) (9 3)			_
24. CONSERVATION AND FORESTRY (61) (914) 25. CONST./MECH. TRADES (92) (934) 26. CONSTRUCTION WORKER (78) (906) 27. COSMETOLOGY (17) (916) 28. CUSTODIAL WORKER (71) (907) 29. DATA PROCESSING (49) (901) 30. DENTAL ASSISTANT (33) (917) 31. DIESEL MECHANICS (10) (923) 32. DRY CLEANING AND LAUNDRY (89) (905) 33. EDUCATIONAL AIDE (76) (909) 34. ELECTRO-MECHANICAL TECH. (40) (911) 35. ELECTRO-MECHANICAL TECH. (40) (911) 36. ELECTRONICS (01) (910) 37. ENVIRONMENTAL TECH. (99) (939) 38. EQUIPMENT PARTS AND SALES (42) (933) 39. FARM EQUIPMENT MECHANICS (13) (902) 40. FARM MANAGEMENT (51) (902) 41. FARRIER (70) (912) 42. FASHION MERCHANDISING (57) (905) 43. FLUID POWER TECH. AND HYD. (22) (923) 44. HEAVY EQUIPMENT (56) (923) 45. HIGHWAY TECHNOLOGY (83) (936) 46. INDUSTRIAL TECHNOLOGY (83) (936) 47. INTERIOR DESIGN AND SALES (44) (933) 48. INTL. DOCUMENTS SPEC. (59) (933) 49. JEWELRY (55) (919) 50. LAW ENFORCEMENT (60) (922) 51. MACHINE SHOP (11) (924) 52. MAINTENANCE MECHANIC (46) (924) 53. MARINE AND SMALL ENG. MECH. (25) (923) 182			
25. CONST./MECH. TRADES (92) (934)			
26. CONSTRUCTION WORKER (78) (906)	· · · · · · · · · · · · · · · · · · ·		
27. COSMETOLOGY (17) (916)			
28. CUSTODIAL WORKER (71) (907)			
29. DATA PROCESSING (49)(901)			
31. DIESEL MECHANICS (10) (923)		_	
32. DRY CLEANING AND LAUNDRY (89) (905)  33. EDUCATIONAL AIDE (76) (909)	30. DENTAL ASSISTANT (33) (917)	158	1.06
33. EDUCATIONAL AIDE (76)(909)		220	1.48
34. ELECTRO-MECHANICAL TECH. (40) (911)  35. ELECTRO-MEDICAL TECHNOLOGY (82) (910)  6 0.04  36. ELECTRONICS (01) (910)  37. ENVIRONMENTAL TECH. (99) (939)  38. EQUIPMENT PARTS AND SALES (42) (933)  39. FARM EQUIPMENT MECHANICS (13) (902)  40. FARM MANAGEMENT (51) (902)  41. FARRIER (70) (912)  42. FASHION MERCHANDISING (57) (905)  43. FLUID POWER TECH. AND HYD. (22) (923)  44. HEAVÝ EQUIPMENT (56) (923)  45. HIGHWAÝ TECHNOLOGY (35) (908)  46. INDUSTRIAL TECHNOLOGY (83) (936)  47. INTERIOR DESIGN AND SALES (44) (933)  48. INTL. DOCUMENTS SPEC. (59) (933)  49. JEWELRY (55) (919)  50. LAW ENFORCEMENT (60) (922)  51. MACHINE SHOP (11) (924)  52. MAINTENANCE MECHANIC (46) (924)  53. MARINE AND SMALL ENG. MECH. (25) (923)  182		2	0.01
35. ELECTRO-MEDICAL TECHNOLOGY (82) (910) 6 0.04 36. ELECTRONICS (01) (910)		39	0.26
36. ELECTRONICS (01) (910)			,
37. ENVIRONMENTAL TECH. (99) (939)			
38. EQUIPMENT PARTS AND SALES (42) (933) 80 0.54 39. FARM EQUIPMENT MECHANICS (13) (902) 82 0.55 40. FARM MANAGEMENT (51) (902) 116 0.78 41. FARRIER (70) (912) 18 0.12 42. FASHION MERCHANDISING (57) (905) 216 1.45 43. FLUID POWER TECH. AND HYD. (22) (923) 94 0.63 44. HEAVY EQUIPMENT (56) (923) 20 0.13 45. HIGHWAY TECHNOLOGY (35) (908) 86 0.58 46. INDUSTRIAL TECHNOLOGY (83) (936) 9 0.06 47. INTERIOR DESIGN AND SALES (44) (933) 43 0.29 48. INTL. DOCUMENTS SPEC. (59) (933) 14 0.09 49. JEWELRY (55) (919) 16 0.11 50. LAW ENFORCEMENT (60) (922) 30 0.20 51. MACHINE SHOP (11) (924) 32 0.22 53. MARINE AND SMALL ENG. MECH. (25) (923) 182 1.23			
39. FARM EQUIPMENT MECHANICS (13)(902)  40. FARM MANAGEMENT (51)(902)  41. FARRIER (70)(912)  42. FASHION MERCHANDISING (57)(905)  43. FLUID POWER TECH. AND HYD. (22)(923)  44. HEAVY EQUIPMENT (56)(923)  45. HIGHWAY TECHNOLOGY (35)(908)  46. INDUSTRIAL TECHNOLOGY (83)(936)  47. INTERIOR DESIGN AND SALES (44)(933)  48. INTL. DOCUMENTS SPEC. (59)(933)  49. JEWELRY (55)(919)  50. LAW ENFORCEMENT (60)(922)  51. MACHINE SHOP (11)(924)  52. MAINTENANCE MECHANIC (46)(924)  53. MARINE AND SMALL ENG. MECH. (25)(923)  182			
40. FARM MANAGEMENT (51) (902)			
41. FARRÎER (70)(912)			
42. FASHION MERCHANDISING (57) (905)			
43. FLUID POWER TECH. AND HYD. (22) (923) 94 0.63 44. HEAVY EQUIPMENT (56) (923) 20 0.13 45. HIGHWAY TECHNOLOGY (35) (908)		_	
44. HEAVÝ EQUIPMENT (56) (923)			
45. HIGHWAY TECHNOLOGY (35) (908)			· · · · · · · · · · · · · · · · · · ·
46. INDUSTRIAL TECHNOLOGY (83) (936)			
47. INTERIOR DESIGN AND SALES (44) (933) 43 0.29 48. INTL. DOCUMENTS SPEC. (59) (933)			
48. INTL. DOCUMENTS SPEC. (59) (933)			
49. JEWELRY (55) (919)			
50. LAW ENFORCEMENT (60)(922)			
51. MACHINE SHOP (11) (924)			
52. MAINTENANCE MECHANIC (46) (924)			
53. MARINE AND SMALL ENG. MECH. (25) (923) 182 1.23			
	(TABLE CONTINUED ON NEXT PAGE	GE)	



### (TABLE CONTINUED FROM PREVIOUS PAGE)

75. PURCH. AND INVENTORY MGMT. (94) (901) 76. RETAIL FLORISTRY (43) (921)	14 113 451 829 257	0.09 0.76 3.04 5.58 1.73 0.04
78. SECRETARIAL TRAINING (48)(901)	26	0.18
	491 1214	3•30 8•17
	17	0 • 1 1
80. SHEET METAL (64) (934)	59	0.40
81. SHOE REPAIR (16) (935)	18	0.12
82. SURGICAL TECHNICIAN (80)(917) 83. TECHNICAL ILLUSTRATION (52)(903)	72 17	0.48 0.11
84. TELEPHONE COMMUNICATIONS (58) (910)	104	0.70
85. TESTING TECH. AND METAL FAB. (14) (936)	19	0.13
86. TOOL AND DIE (05)(924)	139	0.94
87. TRAFFIC TRANSPORT. MGMT. (54) (937)	37	0.25
88. TRUCK DRIVER (90) (937)	49	0.33
89. UPHOLSTERING (29) (938)	19	0.13
90. WAITER/WAITRESS (85)(913) 91. WASTE/WATER TREAT. TECH. (73)(939)	25 \	0 • 01 0 • 17
92. WATCH REPAIR (27) (919)	15	0.10
93. WATER WELL DRILLING (93) (932)	1	0.01
94. WELDING (12) (940)	483	3.25
TOTALS	14857	100.02



## TABLE 4-NUMBER OF TERMINATIONS FROM EACH AREA VOCATIONAL-TECHNICAL INSTITUTE INCLUDED IN THIS REPORT

CATEGORY	NUMBER	PERCENT
1. 916 VO-TECH INSTITUTE	5.2	2.20
	503	3•39
2. ALBERT LEA	140	0.94
o naminging	713	4.80
4. ANOKA	1425	9.59
5. AUSTIN	208	1 • 4 0
6. BEMIDJI	165	1 • 11
7. BRAINERD	324	2•18
8. CANBY	252	1.70
9. DAKOTA COUNTY	207	1•39
10. DETROIT LAKES	279	1.88
11. DULUTH	797	5•36
12. EVELETH	225	1.51
13. FARIBAULT	292	1.97
14. GRANITE FALLS	212	1.43
15. HIBBING	253	1.70
16. HUTCHINSON	214	1 • 44
17. JACKSON	326	2.19
18. MANKATO 6	738	4.97
19. MINNEAPOLIS	817	5.50
20. MOORHEAD	548	3.69
21. PINE CİTY	143	0.96
22. PIPESTONE	328	2.21
23. RED WING	38	0.26
24. ROCHESTER	546	3.68
25. ST. CLOUD	831	5.59
26. ST. PAUL	1597	10.75
Ž7. STAPLES	259	1.74
28. SUBURBAN HENNEPIN	442	2.98
29. THIEF RIVER FALLS	357	2.40
30. WADENA	326	2.19
31. WILLMAR	785	5.28
32. WINONA	567	3.82
TOTALS	14857	100.00



### APPENDIX A - SYSTEM CURRICULUM GUIDE

The following appendix, the System Curriculum Guide, is useful in interpreting Table 3 - NUMBER OF TERMINATIONS FROM EACH CURRICULUM AREA INCLUDED IN THIS REPORT. The appendix lists the broad occupational clusters, the curriculum areas included in each cluster, and specific programs within each curriculum area.

The numbers within parentheses following each of the curriculum categories presented in Table 3 indicate the broad occupational cluster and the curriculum area in which that specific program is located. The first number in parentheses is the number of the curriculum area. The second number (the "900" number) is the number of the broad occupational cluster. The broad occupational clusters are arranged numerically within the appendix.

EXAMPLE: In the case of Agri-Business, the first number in parentheses indicates the number of the curriculum area (50). The second number in parentheses (902) indicates that the curriculum area is located in the broad occupational cluster AGRICULTURAL RELATED OCCUPATIONS. The course names underneath (50) Agri-Business are specific programs offered across the state included in the curriculum area, Agri-Business.

Some curriculum areas are placed under more than one broad occupational cluster, since graduates of these curriculum areas may find employment related to training in more than one broad occupational cluster.



### APPENDIX A - SYSTEM CURRICULUM GUIDE

Broad Occupational Clusters, Curriculum Areas, and Specific Programs

### 901. ACCOUNTING AND CLERICAL RELATED OCCUPATIONS

- 45. Accounting Bookkeeping
- 88. Bank Teller
  Banking and Finance
- 47. Clerical
  Clerical Training and
  Keypunch
  General Office Practice
  Insurance Procedures
  Loan Clerk
  Typing and Related
- 49. Data Processing
  Computer Operator
  Computer Programmer
  Computer Programming
  for Accountants
  Keypunch
- 96. Medical Clerical
  Hospital Service Coordinator
  Hospital Station Secretary
  Medical Receptionist
- 91. Medical Secretarial
  Medical Office Assistant
  Medical Office Services
  Medical Secretarial
- 94. Purchasing and Inventory
  Management
- 48. Secretarial
  Clerical Secretary
  Education Office Occupations
  Law Enforcement Office Occupations
  Personnel Office
  Secretarial, Finance
  Secretarial, Legal
  Secretarial, Stenography
  Steno-Clerical
  Traffic Office

## 902. AGRICULTURAL RELATED OCCUPATIONS

- 50. Agri-Business
  Agri-Business Sales and
  Management
  Agricultural Banking
- 37. Agri-Technology
  Ag Chemicals and Seed
  Technology
  Agricultural Supplies
  Technology
  Irrigation Technology
  Specialty Crops
- 42. Equipment Parts and Sales
  Auto Parts Counterman
  Partsman Training
- 13. Farm Equipment Mechanics
  Agri-Business Materials
  Handling
- 51. Farm Management
  Production Agriculture
- 903. ART RELATED OCCUPATIONS
  - 68. Commercial Art
    Production Art
  - 52. Technical Illustration

### 904. BROADCASTING RELATED OCCUPATIONS

63. Broadcasting
Radio Broadcasting
Telecasting and Broadcasting
Technology



- 905. CLOTHING RELATED OCCUPATIONS
  - 57. Fashion Merchandising Fashion Management Men's Wear Management Men's Wear Merchandising
  - 53. Needle Arts Apparel Arts Apparel Specialist Commercial Tailoring Tailoring
  - 89. Drycleaning and Laundry
- 906. CONSTRUCTION WORKER RELATED OCCUPATIONS
  - 04. Carpentry
  - 78. Construction Worker
- 907. CUSTODIAL RELATED OCCUPATIONS
  - Custodial Worker Building Cleaning & Care Custodial Service Household, Commercial and Domestic Aid
- 908. DRAFTING RELATED OCCUPATIONS
  - Architectural Drafting and Design Electrical Drafting
  - 35. Highway Technology Civil Technology Civil Engineering Technology
  - Mechanical Drafting and Design Design Technology Engineering Drafting Technician Industrial Drafting Municipal Engineering Technology

- 909. EDUCATIONAL AIDE RELATED **OCCUPATIONS** 
  - 76. Educational Aide Teacher Aide
- 910. **ELECTRICITY - ELECTRONICS RELATED** OCCUPATIONS
  - 82. Electro-Medical Technology
  - 01. Electronics Communications Electronics Engineering Technology Industrial Electronics Instrumentation and Computer Maintenance Mobile Communications Technolog: Radio and TV Repair Radio, TV, and Home Entertainment Equipment Service
  - 02. Power and Home Electricity Construction Electrician Electrical Maintenance Electrical Technology Electrician, Power Distributing Industries Lineman Electrician Total Energy
  - 58. Telephone Communications Technician
- 911. ELECTRO MECHANICAL TECHNOLOGY RELATED OCCUPATIONS
  - Construction Mechanical Trades
  - Electro-Mechanical Technology Building, Electrical, and Mechanical Maintenance Building Operation and Maintenance Industrial Instrumentation

(continued)



- 911. ELECTRO MECHANICAL TECHNOLOGY RELATED OCCUPATIONS (continued)
  - 32. Mechanical Refrigeration,
    Air Conditioning, and
    Heating
    Major Appliance Service
    Refrigeration, Heating,
    Air Conditioning, and
    Appliance Repair
- 912. FARRIER RELATED OCCUPATIONS
  - 70. Farrier
- 913. FOOD SERVING AND/OR PROCESSING RELATED OCCUPATIONS
  - 31. Bakery Procedures
  - 62. Butcher and Meat Cutting
  - Management
    Commercial Foods
    Commercial Foods
    Commercial Cooking and
    Baking
    Dietetic Assistant
    Food Service Management
    Quality Food Production
    and Management
    Quantity Food Preparation
    Restaurant and Hotel
    Cookery Management
    Service Occupations and
    Occupational Home Economics
  - 85. Waiter, Waitress
- 914. FOREST INDUSTRY RELATED OCCUPATIONS
  - 61. Conservation and Forestry
    Forest Harvesting Technician
    Land Construction Conservation
    Technology
    Natural Resource Technician
  - 36. Paper and Pulp Technology

- 915. GRAPHIC ARTS RELATED OCCUPATIONS
  - 79. Audio-Visual Technology
    Audio-Video Technician
    Television and Audio-Video
    Production
  - 07. Printing and Graphic Arts
    Offset Printing
- 916. GROOMING RELATED OCCUPATIONS
  - 24. Barbering
  - 17. Cosmetology
- 917. HEALTH RELATED OCCUPATIONS
  - 66. Child Development Assistant Child Service Technology
  - 33. Dental Assistant
    Dental Lab Technician
  - 96. Medical Clerical
    Hospital Service Coordinato
    Hospital Station Secretary
    Medical Receptionist
  - 39. Medical Laboratory /ssistan
  - 91. Medical Secretarial
    Medical Office Assistant
    Medical Office Services
    Medical Record Technician
  - 67. Nurse's Aide or Orderly
    Home Health Aide
    Nursing Assistant
    Psychiatric Technician
  - 74. Occupational Therapy Assist
  - 03. Practical Nursing
  - 80. Surgical Technician



- 918. INDUSTRIAL SUPERVISION RELATED OCCUPATIONS
  - 69. <u>Industrial Foremanship</u>
    Training
- 919. JEWELRY/WATCH REPAIR RELATED OCCUPATIONS
  - 55. Jewelry Metal Arts
  - 27. Watch Repair
- 920. LABORATORY ASSISTANT RELATED OCCUPATIONS
  - 77. <u>Chemical Technology</u>
    Chemical Laboratory
    Technician
  - 39. Medical Laboratory
    Assistant
- 921. LANDSCAPE/FLORISTRY RELATED OCCUPATIONS
  - 34. Nursery/Landscape Technology
  - 43. Retail Floristry
  - 922. LAW ENFORCEMENT RELATED OCCUPATIONS
    - 60. Law Enforcement
  - 923. MACHINERY REPAIR RELATED OCCUPATIONS
    - 18. Aircraft Mechanics
      Avionics (Aviation
      Electronics)
    - 75. Auto Body Repair
      Automobile Body
      Repairman
      Used Car Renovator

(continued)

- 923. MACHINERY REPAIR RELATED OCCUPATIONS (continued)
  - O6. Automotive
    Auto Mechanics
    Automobile Management
    Automobile Tune-Up
    Automotive Service Specialist
    Automotive Technician
    Wheel Alignment and Brake
    Service
  - 86. Automotive Machinist
  - 10. Diesel Mechanics
    Heavy Truck and Diesel
    Engine Mechanics
    Truck Mechanics
  - 42. Equipment Parts and Sales
    Auto Parts Counterman
    Partsman Training
  - 13. Farm Equipment Mechanics
    Agri-Business Materials
    Handling
  - 22. Fluid Power Technology and
    Hydraulics
    Industrial Hydraulics and
    Pneumatics
  - 56. Heavy Equipment
    Heavy Equipment Operation
    and Maintenance
  - 25. Marine and Small Engine Mechanics
  - 19. Service Station Mechanic
    Service Station Sales and
    Repair
- 924. MACHINIST RELATED OCCUPATIONS
  - 86. Automotive Machinist

(continued)



924.	924. MACHINIST RELATED OCCUPATIONS (continued)		929.	OPTIC RELATED OCCUPATIONS
	11.	Machine Shop Machine Operator		38. Optical Technology
		Machine Tool Operator Machine Tool Process Machine Tool Rebuilding	930.	PAINTING AND DECORATING RELATED OCCUPATIONS
		Machinist Numerical Control Technology Production Machinist		95. Painting and Decorating
		Todaccion Machinist	931.	PHOTOGRAPHIC RELATED OCCUPATIONS
	46.	Maintenance Mechanic		72. Photographic Technology
	23.	Pattern Making		
	26.	Plastic Injection Molding Technology	932.	PIPEFITTING AND PLUMBING RELATED OCCUPATIONS
	05.			92. Construction Mechanical Tra
		Machine Shop - Die Making Machine Tool and Die Tool Design Technician		21. Plumbing Pipefitting
		Tool, Die, Mold-Making. Tool Engineering Technician		93. Water Well Drilling
925.	MASC	ONRY RELATED OCCUPATIONS	933.	SALES RELATED OCCUPATIONS
	28.	Bricklaying		50. Agri-Business Agri-Business Sales and Manufacturing
926.	MOB1	LE HOMES SERVICES RELATED OCCUPATIONS		Agricultural Banking
	84.	Mobile Homes Services		42. Equipment Parts and Sales Auto Parts Counterman Partsman Training
927.	NEWS	SPAPER RELATED OCCUPATIONS		57. Fashion Merchandising Fashion Management
	87.	Newspaper Skills		Men's Wear Management Men's Wear Merchandising
928.		ICE MACHINE MECHANIC ELATED OCCUPATIONS		44. Interior Design and Sales Assistant
	30.	Office Machine Mechanics		59. <u>International Documents</u> <u>Specialist</u>
				(continued)



- 933. SALES RELATED OCCUPATIONS (continued)
- 938. UPHOLSTERING RELATED OCCUPATIONS
- 41. Sales and Business

- 29. Upholstering
- Management
  Aviation Administration
  Food Merchandising
  Hardware Marketing &
- 939. WASTE AND WATER TREATMENT TECHNOLOGY RELATED OCCUPATIONS
- Food Merchandising
  Hardware Marketing &
  Building Supplies
  Lumberyard Management
  Marketing-Merchandising
  Produce Management
  Retail Merchandising
  Sales Associate
  Sales and Marketing
  Small Business Management
  Supermarket Management

Wholesaling, Retailing

Marketing-Management

- 73. Waste and Water Treatment Technology
- 940. WELDING RELATED OCCUPATIONS
  - 75. Auto Body Repair
    Automobile Body Repairman
    Used Car Renovator
  - 12. Welding
- 934. SHEET METAL RELATED OCCUPATIONS
- 941. WOODWORKING RELATED OCCUPATIONS
- 92. Construction Mechanical Trades
- 20. Cabinetmaking
- 64. Sheet Metal and Design
- 04. Carpentry
- 935. SHOE REPAIRING RELATED OCCUPATIONS 942. UNSKILLED WORKER
  - 16. Shoe Repairing

- 943. MISCELLANEOUS OCCUPATIONS
- 936. TESTING RELATED OCCUPATIONS
  - 83. Industrial Technology
    Industrial Lab Technician
    Quality Control Technician
  - 14. Testing Technology and Metal Fabrication
- 937. TRANSPORTATION RELATED OCCUPATIONS
  - 81. Air Traffic Control
  - 54. Traffic Transportation Management
  - 90. Truck Driver



### APPENDIX B

### Categorization System for Reasons for Withdrawal

Student withdrawals are classified in Table 2 - REASONS WHY STUDENTS WITHDREW, into nine categories. These categories are listed below along with several sample reasons for withdrawal which would result in a particular classification.

- 1. ENTERED THE ARMED FORCES
- 2. TRANSFERRED TO ANOTHER AREA VOCATIONAL-TECHNICAL INSTITUTE
- 3. TRANSFERRED TO A JUNIOR COLLEGE
- 4. TRANSFERRED TO A COLLEGE OR UNIVERSITY
- 5. TRANSFERRED TO INSTITUTION OTHER THAN THOSE MENTIONED IN 2, 3, 4
- ECONOMIC REASONS
  - -insufficient funds
  - -accepted a full-time job not related to his AVTI program -etc.
- 7. PERSONAL PROBLEMS
  - -family problems
  - -health-illness-or death
  - -marriage
  - -moved from area
  - -pregnancy
  - -etc.
- 8. UNSATISFACTORY PROGRAM PERFORMANCE
  - -poor grades-lack of progress
  - -absent too frequently
  - -could not adjust to training program
  - -lack of educational interest
  - -etc.
- 9. REASON UNKNOWN
  - -no reason given by student
  - -non-interpretable reason
  - -etc.

